Thermal transfer printer for cards

User manual

UM EN THERMOMARK CARD

PHOENIX CONTACT
INSPIRING INNOVATIONS

User manual
Thermal transfer printer for cards

2013-07-30

Designation:	UM EN THERMOMARK CARD
Version:	04
Order No.:	–

This user manual is valid for:

Designation	Order no.
THERMOMARK CARD	5146464
THERMOMARK CARD AR	5146736
THERMOMARK CARD PLUS	5146481

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Note on the print media

The result of the print depends essentially on the suitable combination of material and print ribbon.

NOTE: Use suitable print media

A low-quality ink ribbon can lead to premature wear on the printhead and result in a poor print image. Use only print media from Phoenix Contact.

You can find suitable print media in the Phoenix Contact catalog.

Change language of Touch Screen

The language of the Touch Screen is set to English by default. To select a different language, proceed as follows:

- Touch to open the menu.
- Select then for the settings.
- With , you access the regional settings.
- Touch the symbol.
- Use the horizontal arrows to select your language.
- Confirm your selection with .
- Touch to return to the menu.

Notes on the THERMOMARK CARD PLUS

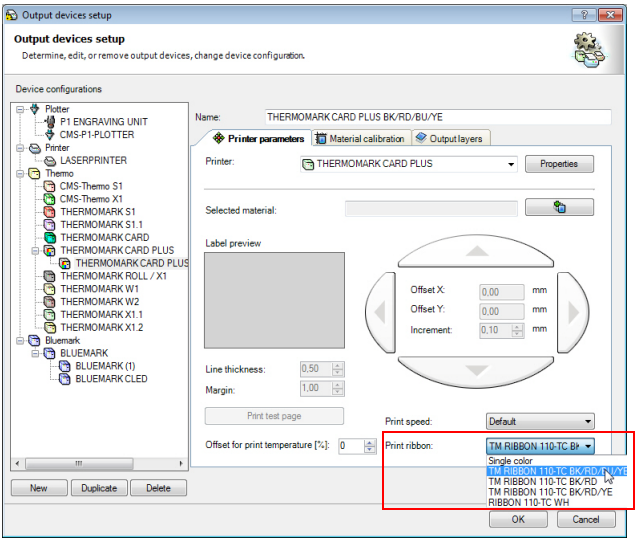
With the THERMOMARK CARD PLUS thermal transfer printer, you can use a segmented ink ribbon to create multi-color marking labels.

NOTE: Selecting the ink ribbon

When printing you have to set which ink ribbon is inserted. Use ink ribbons from Phoenix Contact only.

Selecting an ink ribbon in CLIP PROJECT marking (Version 8.3 or later)

- Select “File, Print setup” in the menu.
- Select the printer you want to install and then click “New”.
- The printer name can be modified.
- Select the printer driver from the drop-down menu. If your printer is not listed, check whether the printer driver has been installed.
- Select the inserted ink ribbon under “Print ribbon”.



- Click “OK”.

Technical data

Resolution	300 dpi x 300 dpi (11.81 points/mm x 11.81 points/mm)
Print mode	Thermal transfer
CPU	32 bit/400 mHz
Material sensor	Sensor for US media and UCT media
Color sensor	5146481: Sensor for segmented ink ribbons
Print speed	30 mm/s ... 75 mm/s
Print length	Maximum 140 mm
Print width	Maximum 104 mm
Print medium	
Maximum width	115 mm
Maximum length	164 mm
Ink ribbon	
Length	Maximum 300 m
Outside diameter of the ink ribbon reel:	Maximum 68 mm
Internal core diameter	25.4 mm
Ink side	Outside
Interfaces	USB 2.0, full speed slave, Ethernet 10/100Base-T
Display and Operation	Touch display with 160 x 255 pixels, 96.31 mm diagonal
Voltage	100 V AC ... 240 V AC, 50/60 Hz, PFC
Power	Maximum 100 W
Temperature	
Operation	+5°C ... +35°C
Storage	0°C ... +60°C
Transport	-25°C ... +60°C
Humidity	
Operation	10 % ... 85%, no condensation
Storage	20 % ... 80%, no condensation
Transport	20 % ... 80%, no condensation
Approvals	5146464: CE, FCC class A, UL, CB, CCC 5146736: CE, FCC class A, UL, CB, CCC, S-Mark 5146481: CE, FCC class A, UL, CB
Dimensions (H x D x W)	189 mm x 320 mm x 253 mm
Weight	6.5 kg

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1 Introduction

1.1 Product Description

The device is an industrial thermal transfer printer for printing cards, which are inserted into the printer with a magazine on a slide.

1.2 Instructions

Important information and instructions in this documentation are designated as follows:

Danger!
Draws your attention to an exceptionally grave, impending danger to your health or life.

Warning!
Indicates a hazardous situation that could lead to injuries or material damage.

Attention!
Draws attention to possible dangers, material damage or loss of quality.

Notice!
Gives you tips. They make a working sequence easier or draw attention to important working processes.

Environment!
Gives you tips on protecting the environment.

▶ Handling instruction

▷ Reference to section, position, illustration number or document.

∗ Option (accessories, peripheral equipment, special fittings).

`Time` Information in the display.

1.3 Intended Use

- The device is manufactured in accordance with the current technological status and the recognized safety rules. However, danger to the life and limb of the user or third parties and/or damage to the device and other tangible assets can arise during use.
- The device may only be used for its intended purpose and if it is in perfect working order, and it must be used with regard to safety and dangers as stated in the operating manual.
- The device printer is intended exclusively for printing suitable materials. Any other use or use going beyond this shall be regarded as improper use. The manufacturer/supplier shall not be liable for damage resulting from unauthorized use; the user shall bear the risk alone.
- Usage for the intended purpose also includes complying with the operating manual, including the manufacturer‘s maintenance recommendations and specifications.

Notice!
The complete documentation is included in the scope of delivery on DVD, and can also currently be found in the Internet.

1.4 Safety Instructions

- The device is configured for voltages of 100 to 240 V AC. It only has to be plugged into a grounded socket.
- Only connect the device to other devices which have a protective low voltage.
- Switch off all affected devices (computer, printer, accessories) before connecting or disconnecting.
- The device may only be used in a dry environment, do not expose it to moisture (sprays of water, mists, etc.).
- Do not use the device in an explosive atmosphere.
- Do not use the device close to high-voltage power lines.
- If the device is operated with the cover open, ensure that people‘s clothing, hair, jewelry etc. do not come into contact with the exposed rotating parts.
- The device or parts of it can become hot while printing. Do not touch during operation, and allow to cool down before changing material and before disassembly.
- Risk of crushing when closing the cover. Touch the cover at the outside only. Do not reach into the swivel range of the cover.
- Perform only those actions described in this operating manual.
  Work going beyond this may only be performed by trained personnel or service technicians.

- Unauthorized interference with electronic modules or their software can cause malfunctions.
- Other unauthorized work on or modifications to the device can also endanger operational safety.
- Always have service work done in a qualified workshop, where the personnel have the technical knowledge and tools required to do the necessary work.
- There are various warning stickers on the device. They draw your attention to dangers.
  Warning stickers must therefore not be removed, as then you and other people cannot be aware of dangers and may be injured.
- The maximum sound pressure level is less than 70 dB(A).

Danger!

Danger to life and limb from power supply.

▶ **Do not open the device casing.**

1.5 Environment

Obsolete devices contain valuable recyclable materials that should be sent for recycling.

▶ Send to suitable collection points, separately from residual waste.

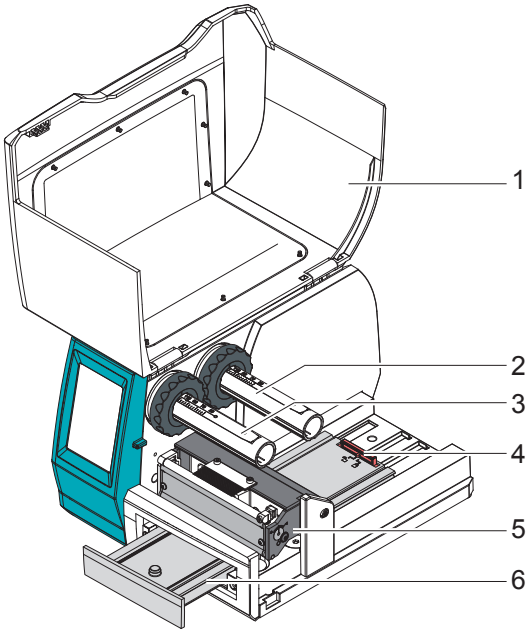
The modular construction of the printer enables it to be easily disassembled into its component parts.

▶ Send the parts for recycling.

The electronic circuit board of the device is equipped with a lithium battery.

▶ Take old batteries to collection boxes in shops or public waste disposal centers..

2.1 Device Overview



1 Cover
2 Ribbon supply hub
3 Ribbon take-up hub
4 Transport lock
5 Print mechanics
6 Transport slide

Fig. 1 Device Overview

2.2 Unpacking and Setting-up the Printer

- ▶ Lift the printer out of the box and set it up on a level surface.
- ▶ Check printer for damage which may have occurred during transport.
- ▶ Check delivery for completeness.

Contents of Delivery:

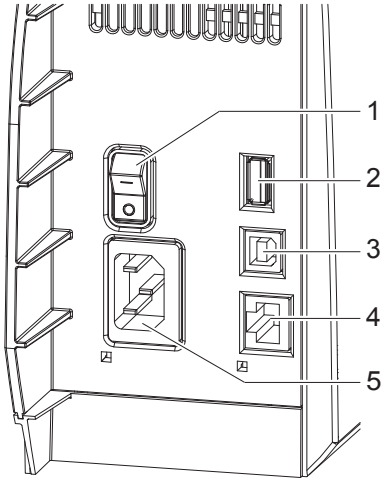
- Printer
- Power Cable Type E+F
- USB Cable
- Operator's Manual
- DVD with application software, driver and documentation
- THERMOMARK RIBBON 110-50 TC
- Magazine THERMOMARK CARD UCT-MAG 1 and THERMOMARK CARD US-MAG 1
- Printed Samples UCT and US
- Label cards UCT and US
- Package of felt sticks

Notice!
Please keep the original packaging in case the printer must be returned.

Attention!
The device and printing materials will be damaged by moisture and wetness.

- ▶ **Set up printers only in dry locations protected from splash water.**

2.3 Connecting the Device



1 Power switch
2 USB master ports for keyboard, scanner, or memory stick
3 USB high-speed slave port
4 Ethernet 10/100 Base-T
5 Power connection jack

Fig. 2 Connections

2.3.1 Connecting to the Power Supply

The printer is equipped with a wide area power unit for a supply voltage of 100 V to 240 V.

1. Check that the device is switched off.
2. Plug the power cable into the power connection jack (5).
3. Plug the power cable into a grounded socket.

Danger!

Danger to life and limb from power supply.

▶ **Do not open the device casing after connecting the printer to the power supply.**

2.3.2 Connecting to a Computer via USB

Attention!
Inadequate or no grounding can cause malfunctions during operations.

- ▶ **Ensure that all computers and cables connected to the printer are grounded.**

In order to connect the printer to a USB interface a printer driver must be installed. The adequate driver for your device can be found on the DVD included in the contents of delivery or on the internet at www.phoenixcontact.net/catalog.

- ▶ Switch on computer.
- ▶ Terminate all running tasks.
- ▶ Switch on THERMOMARK CARD.

Attention!
Danger of crushing.

- ▶ **Pay attention to the transport slide, which retracts automatically if it is extended when initializing the printer.**

- ▶ Connect computer with THERMOMARK CARD using the included USB cable.
- ▶ Insert DVD with the driver software into the DVD drive.
- ▶ The Windows installation wizard is started automatically.
- ▶ Follow the instructions on the screen.
- ▶ When the error message "Windows logo test failed" appears, still continue the installation.

After a successful installation an icon for the THERMOMARK CARD appears in the windows system directory "Printer".

CLIP PROJECT

Afterwards, configure the THERMOMARK CARD in the planning and marking software CLIP PROJECT in the module "Marking".

- ▶ Add the THERMOMARK CARD as a new printer in CLIP PROJECT "Marking" under „File... configure output device...“. Therefore, select THERMOMARK CARD from the selection box and click "New". Then select "OK".

2.3.3 Connecting to a Network via Ethernet

The integrated Ethernet interface allows the operation of the printer in a network. To connect the printer to a network outlet a patch cable with a RJ45 plug for 10Base or 100Base-T is necessary.

Attention!
When connecting the printer to the network a shielded cable must necessarily be used.

▶ Connect computer to a printer by a suitable cable.

2.4 Switching on the Device

Attention!
▶ **Unlock transport lock before switching on the printer (▷7.1 on page 28).**

When all connections have been made:

▶ Switch the printer on at the power switch (1).
The printer performs a system test, and then shows the system status `READY` in the touch-screen display.

If an error occurs during the system test, the symbol ⚠, `Critical fault` and type of error are displayed.

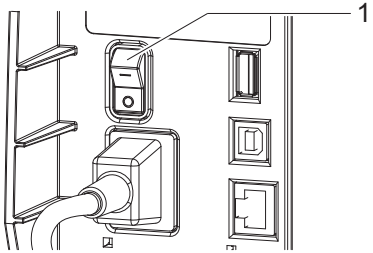
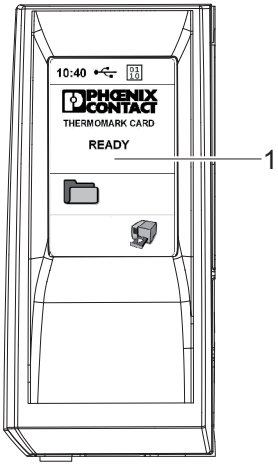


Fig. 3 Power Switch

3 Touchscreen-Display

3.1 Structure of the Touchscreen Display



The touchscreen display (1) indicates the current status of the printer and the print job, indicates faults and shows the printer settings in the menu.

By selecting the buttons on the touchscreen display (1) settings can be made.

Fig. 4 Touchscreen Display

3.2 Operating the Touchscreen Display

The touchscreen display is operated directly by touch:

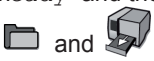
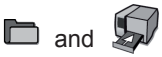
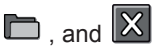
- To open a menu or select a menu item lightly touch the corresponding symbol.
- To scroll in lists slide finger up or down on the display.

3.3 Symbols on the Start Display

Symbol	Status	Function
	Ready	To offline menu
	Error	
	Ready	After the end of a print job, reprint the last card.
	Ready	Delete internal memory, the last card can no longer be reprinted.
	Print	Cancel current print job and delete all print jobs.
	Error	
	Ready with extended slide	If print data are available the print is triggered. If there are no print data available the slide is retracted.
	Ready with retracted slide	Set slide into insert position.

Table 1 Symbols on the Start Display

3.4 Printer States

State	Display	Description
Ready	`Ready` and the symbols 	The printer is in the ready state and can receive data. The slide is retracted.
Ready	`Ready` and the symbols 	The printer is in the ready state and can receive data. The slide is extended.
Ready (after first print)	`Ready` and the symbols	The printer is in the ready state and can receive data.
Insert Material	`Insert` and the symbols	In order to process a print job new material must be inserted. After inserting the material and confirming with the print job is processed.
Print	Card description and the number of the printed card in the print job, the symbols 	The printer is currently processing an active print job. Data can be transmitted for a new print job. The new print job will start when the previous one has finished.
Error	and the type of error, the card description and the number of cards still to be printed and the symbols	An error has occurred.
Critical fault	 `Critical fault` and the type of error Display flashes red	An error occurs during the system test. ▶ Switch the printer off and then on again at the power switch or Call Service if the fault occurs persistently.

Power Save Mode		If the printer is not used for a lengthy period, it automatically switches to power save mode. ▶ To exit power save mode: Touch touchscreen display.

Table 2 Printer States

3.5 Configure Ethernet Interface

The Ethernet interface can be configured under menu item **`Setup > Interfaces`**.

The following parameters are necessary for operating the printer in a network. Contact your network administrator if required.

- IP address
- Subnet mask
- if necessary gateway

Alternatively, the Ethernet configuration is also available via DHCP server. In this case, make sure that the transmitted configuration is always the same.

Configure Ethernet interface at the printer

- ▶ Select .
- ▶ Select **Setup**.
- ▶ Select **Interfaces**.
- ▶ Select **Ethernet**.
- ▶ Select setting options.
- ▶ Select desired setting with ▸ ◂.
- ▶ Confirm selection with or cancel selection with .
- ▶ Return to start screen with .

3.6 Perform Test Print

- ▶ Select
- ▶ Select
- ▶ Depending on the inserted material select or .
- ▶ Test print starts.

4.1 Loading Transfer Ribbon

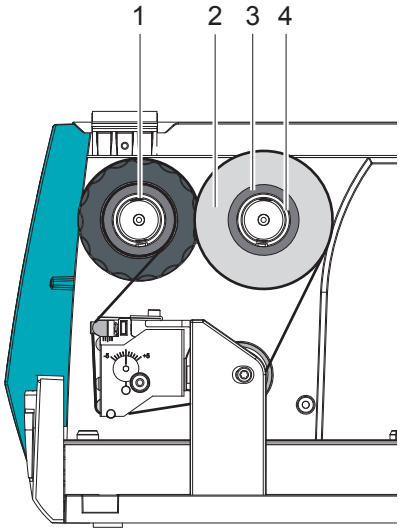


Fig. 5 Transfer Ribbon Feed Path

1. Clean the printhead before loading the transfer ribbon.
2. Load transfer ribbon (2) on the hub (4) until it reaches the guide in a way that the color coating of the ribbon faces the opposite side of the printhead after being loaded.

Notice!
To wind the ribbon a ribbon core (3) is needed that must be at least equal in width to the supply ribbon.

▶ **When changing the transfer ribbon use the empty supply ribbon core for winding the next ribbon.**

3. Push ribbon core on the ribbon take-up hub (1).
4. Guide transfer ribbon though the printing unit as shown in Fig. 5.
5. Secure starting end of the transfer ribbon to the ribbon core (3) using adhesive tape. Ensure counterclockwise rotation direction of the transfer ribbon take-up hub.
6. Turn transfer ribbon take-up hub (1) counterclockwise to smooth out the feed path of the transfer ribbon.

4.2 Insert Magazine

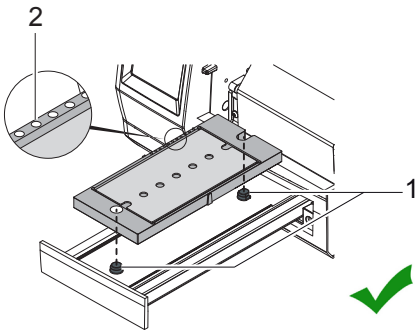
Note!
It is not necessary to switch off the printer when changing the magazine.

Attention!
Risk of crushing.

- **Make sure that there are no body parts or objects within the range of the slide when extending and retracting the transport slide.**

- Extend transport slide with .

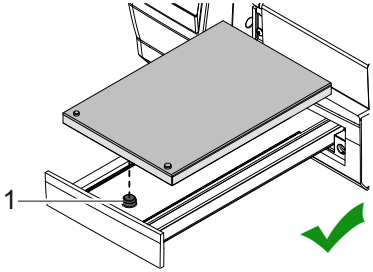
Insert UCT magazine:



- Place magazine with holes onto the pins (1) of the transport slide.
- Position magazine in a way that the holes (2) at the magazine's edge are at the rear left.

Fig. 6 Insert UCT-Magazine

Insert US magazine:



- Place magazine with the holes onto the pins (1) of the transport slide.

Fig. 7 Insert US-Magazine

Attention!

Printhead damage caused by improper handling!

- ▶ **Do not touch the underside of the printhead with the fingers or sharp objects.**
- ▶ **Ensure that the cards are clean.**

The printer is ready for operation when all connections have been made and cards and the transfer ribbon have been loaded.

Attention!

- ▶ **Unlock the transport lock before inserting and printing the material ▷ 7.1 on page 28.**

1. Start print job.
2. If the transport slide is not in the insert position, select to extend slide.
3. Insert material into the magazine on the extended transport slide.

Note!
The cards must be dry, free from grease, fingerprints and dust.

Insert UCT material:

- ▶ Insert material in a way that the smaller rectangle is positioned at the rear left and the feet (Fig. 12, 3) point into the direction of the magazine. The material must click into the guides (Fig. 11, 2) of the magazine.
- ▶ At the front right two similar rectangles (1) as shown in Fig. 8 must be visible.

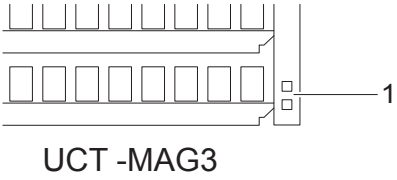


Fig. 8 Rectangles on the UCT material

Note!
UCT material can also be printed if one or more complete strips of the card are missing.

Correct

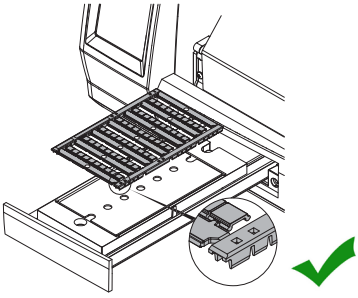


Fig. 9 UCT material inserted correctly

Incorrect

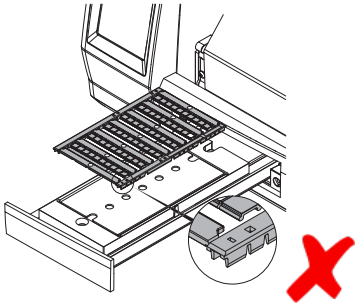


Fig. 10 UCT material inserted incorrectly, turned by 180 degrees

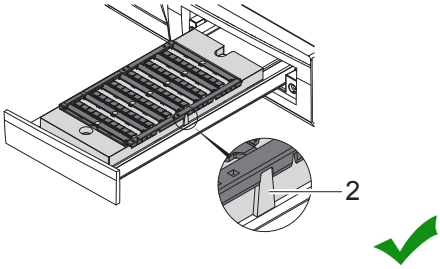


Fig. 11 UCT material - feet down

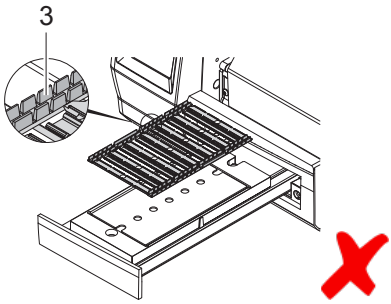


Fig. 12 UCT material - feet up

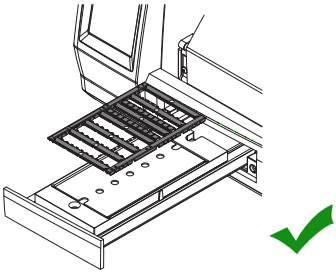


Fig. 13 UCT material with two or more complete strips

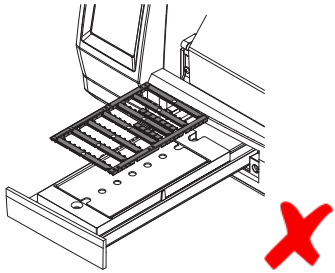


Fig. 14 UCT material with incomplete strips

Insert US material:

Correct

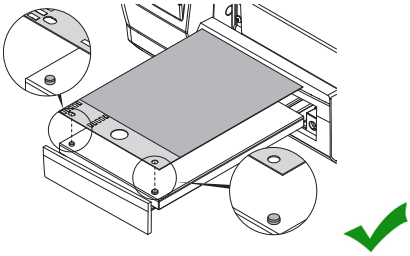


Fig. 15 US material inserted correctly

Incorrect

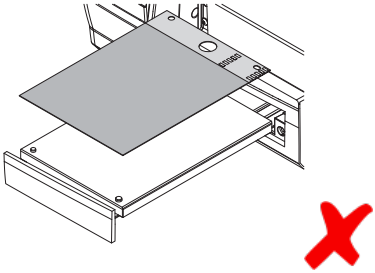


Fig. 16 US material inserted incorrectly

1. Put holes of the material precisely onto the pins of the magazine.
2. Select . Material is checked by the printer.

   If the material is inserted incorrectly or does not correspond to the material shown on the display, the printer will issue an error message.
   If the material is inserted correctly the print is started. After printing the transport slide is extended until the extract position is reached.
3. Remove material.
4. Insert new material.
5. Repeat procedure until the print job is processed completely.
6. Select to re-print the previous page of the print job.

6 Cleaning

6.1 Cleaning Instructions

Danger!

Risk of death from electric shock!

- ▶ **Disconnect the printer from the power supply before performing any maintenance work.**

It is important to clean the thermal printhead regularly. This guarantees a consistently good printed image and reduces wear of the printhead.

Otherwise it is recommended to clean the device once a month.

Attention!

The printer can be damaged by aggressive cleansers.

- ▶ **Do not use abrasive cleaners or solvents for cleaning the external surfaces or modules.**

Note!

If the device is not in use, shut the cover to avoid soiling.

- ▶ Remove dust and paper fluff from the print area with a soft brush or vacuum cleaner.
- ▶ The cover of the printer can be cleaned with a standard cleanser.

6.2 Cleaning the Printhead

Attention!

Printhead can be damaged!

- ▶ **Do not use sharp or hard objects to clean the printhead.**
- ▶ **Do not touch protective glass layer of the printhead.**

Attention!

Risk of injury from the hot printhead line.

- ▶ **Ensure that the printhead has cooled down before starting cleaning.**

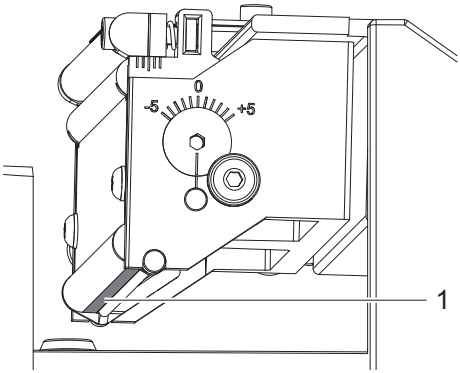


Fig. 17 Printhead line

1. Remove magazine, material and transfer ribbon from the printer.
2. Clean printhead line (1) with a felt stick (CLEANING STICK, Part No.: 5146698) soaked in rubbing alcohol.
3. Allow printhead to dry for 2–3 minutes before commencing printing.

7 Transport Lock

7.1 Unlock Transport Lock

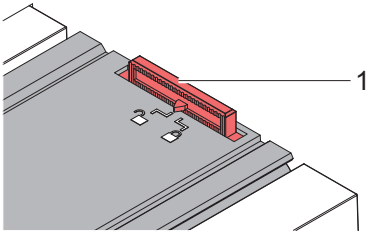


Fig. 18 Transport lock

Unlock Transport Lock

- ▶ Open cover.
- ▶ Move transport lock (1) until the arrow points to the symbol on the transport slide.

7.2 Prepare Device for Transport

Remove magazine

- ▶ Lift magazine up from transport slide.

Lock transport lock

- ▶ Open cover.
- ▶ Move transport lock (1) until the arrow points to the symbol on the transport slide.

Remove transfer ribbon

- ▶ Remove transfer ribbon from transfer ribbon supply hub and transfer ribbon take-up hub.

8.1 Problem Solution

Problem	Cause	Remedy
Print image has smears or voids	Printhead is dirty	Clean the printhead
Printer transports cards but does not print them.	Transfer ribbon inserted incorrectly	Check transfer ribbon feed path and orientation of the coated side and correct if necessary. Clean the printhead.

Table 3 Problem Solution

8.2 Error Messages and Fault Correction

Error message	Cause	Remedy
`Buffer overflow`	The input buffer memory is full and the computer is still transmitting data.	Use data transmission via protocol (preferably RTS/CTS).
`Head too hot`	Printhead is overheated	After pausing the print job will be continued automatically. If the fault recurs repeatedly, reduce the heat level or the print speed via software.
`Memory overflow`	Current print job contains too much information, e.g. selected font, large graphics	Cancel current print job. Reduce amount of data to be printed.
`Network Error`	e.g. No DHCP server, no link, no SMTP server, no Timeserver	Please contact your network administrator.
`Out of ribbon`	Out of transfer ribbon	Insert new transfer ribbon.
	Transfer ribbon melted during printing	Cancel current print job. Change the heat level via software. Clean the printhead Load transfer ribbon Restart print job.
`Protocol error`	Printer has received an unknown or invalid command from the computer.	Select `Ignore` to skip the command or select `Cancel Job` to cancel the print job.
`System Error`	e.g. FPGA defective, invalid setup, voltage error	Switch the printer off and then on. Please note error details shown on the display. If error recurs call service.

Error message	Cause	Remedy
`Wrong material`	The inserted material does not correspond to the preset material.	Insert correct material.
		Select different material in the print command.
	The boreholes of the UCT magazine are dirty.	Clean the boreholes in the UCT magazine.

Table 4 Error Messages and Fault Correction

9.1 EC Declaration of Conformity

5146464.CE.02

EG-Konformitätserklärung
EC-Declaration of Conformity

Hersteller / *Manufacturer*: **PHOENIX CONTACT GmbH & Co. KG**

Anschrift / *Address*: Flachsmarktstraße 8, D-32825 Blomberg, Germany

Produktbezeichnung / *Product description*: **THERMOMARK CARD**

(Artikelbezeichnung, / *Article description*, Artikel-Nr. / *Article no.*) **5146464**

Das vorstehend bezeichnete Produkt stimmt mit den wesentlichen Anforderungen der nachfolgenden Richtlinie(n) und deren Änderungsrichtlinien überein / *The above mentioned product is in line with the essential requirements of the below directive(s) and their modification directive(s):*

2004/108/EC	**EMV-Richtlinie (Elektromagnetische Verträglichkeit)** ***Electromagnetic Compatibility Directive (EMC)***
2006/95/EC	**Niederspannungs-Richtlinie (NSR)** ***Low Voltage Directive (LVD)***

Für die Beurteilung der Übereinstimmung wurden folgende einschlägige Normen herangezogen:
For evaluation of the conformity following relevant standards were consulted:

EN 60950-1:2006/A11:2009	EN 60950-1:2006/A1:2010	EN 60950-1:2006/A12:2011
EN 61558-1:2005/A1:2009	EN 55022:2010	EN 55024:2010
EN 61000-3-2:2006/A1:2009/A2:2009	EN 61000-3-3:2008	EN 61000-6-2:2005

Weitere Informationen (z. B. Dokumente, Prüfberichte, Einschränkungen, etc.) zur Konformitätsbewertung:
Additional information (for example documents, test reports, restrictions etc.,) of the conformity assessment:

Zertifikate einer benannten Stelle / *Certificates by a notified body*:

Anschrift / *Address*:

Referenz / *Reference*:

Anschrift / *Address*:

Referenz / *Reference*:

Die letzten beiden Ziffern des Jahres in dem die CE-Kennzeichnung angebracht wurde: 11
The last two figures of the year in which the CE marking was applied:
(nur einzutragen, bei der Niederspannungsrichtlinie / *only to be entered on the low voltage directive*)

☒ Diese Erklärung gilt auch für die im Anhang aufgelisteten Produkte. (wenn angekreuzt)
This declaration also applies for the products listed in the annex. (*if marked with a cross*)

Diese Erklärung bescheinigt die Übereinstimmung mit den wesentlichen Anforderungen der genannten Richtlinie(n), enthält jedoch keine Zusicherung von Eigenschaften. Die Sicherheits- und Einbauhinweise der mitgelieferten Produktdokumentation sind zu beachten.
This declaration certifies the conformity with the essential requirements of the indicated directive(s), it does not, however, covenant any characteristics. The instructions for safety and installation of the enclosed product documentation have to be observed.

Blomberg, 2013-04-10

Sandra Klocke
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Director, Head of Development
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PHOENIX CONTACT

5146464.CE.02

Anhang zur EG-Konformitätserklärung
Annex on EC Declaration of Conformity
vom / dated 2013-04-10

Produktbezeichnung / *Product description*: **THERMOMARK CARD**

(Artikelbezeichnung, / *Article description*,
Artikel-Nr. / *Article no.*) **5146464**

Die Konformität mit den wesentlichen Anforderungen der Richtlinie(n) wird auch für folgende Produkte bescheinigt:
The conformity with the essential requirements of the directive(s) is also certified by the declaration for following products.

Artikel-Nr. / *Article no.*	**Artikelbezeichnung / *Article description***
5146736	THERMOMARK CARD AR

PHOENIX CONTACT

5146481.CE.01

EG-Konformitätserklärung
EC-Declaration of Conformity

Hersteller / *Manufacturer*: **PHOENIX CONTACT GmbH & Co. KG**

Anschrift / *Address*: Flachsmarktstraße 8, D-32825 Blomberg, Germany

Produktbezeichnung / *Product description*: **THERMOMARK CARD PLUS**

(Artikelbezeichnung, / *Article description*, Artikel-Nr. / *Article no.*) **5146481**

Das vorstehend bezeichnete Produkt stimmt mit den wesentlichen Anforderungen der nachfolgenden Richtlinie(n) und deren Änderungsrichtlinien überein / *The above mentioned product is in line with the essential requirements of the below directive(s) and their modification directive(s):*

2004/108/EC	**EMV-Richtlinie (Elektromagnetische Verträglichkeit)** ***Electromagnetic Compatibility Directive (EMC)***
2006/95/EC	**Niederspannungs-Richtlinie (NSR)** ***Low Voltage Directive (LVD)***

Für die Beurteilung der Übereinstimmung wurden folgende einschlägige Normen herangezogen:
For evaluation of the conformity following relevant standards were consulted:

EN 60950-1:2006/A11:2009	EN 60950-1:2006/A1:2010	EN 60950-1:2006/A12:2011
EN 61558-1:2005/A1:2009	EN 55022:2010	EN 55024:2010
EN 61000-3-2:2006/A1:2009/A2:2009	EN 61000-3-3:2008	EN 61000-6-2:2005

Weitere Informationen (z. B. Dokumente, Prüfberichte, Einschränkungen, etc.) zur Konformitätsbewertung:
Additional information (for example documents, test reports, restrictions etc.,) of the conformity assessment:

Zertifikate einer benannten Stelle / *Certificates by a notified body*:

Anschrift / *Address*:

Referenz / *Reference*:

Anschrift / *Address*:

Referenz / *Reference*:

Die letzten beiden Ziffern des Jahres in dem die CE-Kennzeichnung angebracht wurde: 13
The last two figures of the year in which the CE marking was applied:
(nur einzutragen, bei der Niederspannungsrichtlinie / *only to be entered on the low voltage directive*)

☐ Diese Erklärung gilt auch für die im Anhang aufgelisteten Produkte. (wenn angekreuzt)
This declaration also applies for the products listed in the annex. *(if marked with a cross)*

Diese Erklärung bescheinigt die Übereinstimmung mit den wesentlichen Anforderungen der genannten Richtlinie(n), enthält jedoch keine Zusicherung von Eigenschaften. Die Sicherheits- und Einbauhinweise der mitgelieferten Produktdokumentation sind zu beachten.
This declaration certifies the conformity with the essential requirements of the indicated directive(s), it does not, however, covenant any characteristics. The instructions for safety and installation of the enclosed product documentation have to be observed.

Blomberg, 2013-04-12

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Heinz Reibke
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Director, Head of Development
Zeichnungsberechtigter / *authorized signatory*

9.2 FCC

NOTE : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user may be required to correct the interference at his own expense.

9.3 GPL Code Statement

This product includes software code developed by third parties, including software code subject to the GNU General Public License ("GPL") or GNU Lesser General Public License ("LGPL"). As applicable, the terms of the GPL and LGPL, and information on obtaining access to the GPL Code and LGPL Code used in this product, are available to you at:

http://www.phoenixcontact.net/catalog

under the description of the printer.

The GPL Code and LGPL Code used in this product is distributed WITHOUT ANY WARRANTY and is subject to the copyrights of one or more authors. For details ,see the GPL Code and the LGPL Code for this product and the terms of the GPL and LGPL.

Written Offer to GPL Source Code:

Whereas such specific license terms entitle you to the source code of such software, PHOENIX CONTACT will provide upon written request via email and/or traditional paper mail the applicable GPL source code files via CD-ROM for a nominal cost to cover shipping and media charges as allowed under the GPL and LGPL.

Please direct all inquiries to:

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Flachsmarktstraße 8
32825 Blomberg
DEUTSCHLAND

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